UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

006154

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES
MAY 12 1986

MEMORANDUM

SUBJECT: EPA Registration Number 7001-337
Oxy Weed and Grass Killer, Granular

FROM: Deloris F. Graham DFG 5/19/86 E 5/19/86
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

TO: Robert J. Taylor, PM 25
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Applicant: Occidental Chemical Company
P.O. Box 198
Lathrop, CA 95330

Active Ingredients:	
Sodium Chlorate ($NaClO_3$)	30.00%
Sodium Metaborate Tetrahydrate ($Na_2B_2O_4 4H_2O$)	66.50%
Diuron [3-(3,4-Dichlorophenyl)-1,1-dimethylurea]	1.25%
Inert Ingredients:	2.25%

Background:

Submitted Eye Irritation Study to support change in signal word from DANGER to WARNING. Study conducted by Bio-Technics Laboratories, Inc. Data under Accession Number 260551. Method of support not indicated.

Recommendation:

1. FHB/TSS finds this study acceptable to support the conditional registration of this product.

2. The appropriate toxicity category is II - WARNING.

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3. Since the product was originally registered under the "Cite-All" method of support and there was no previous review of acute toxicity data submitted, it could not be determined if the signal word DANGER was based on the Eye Study only. If that is the case, then this request to change signal word to WARNING based on this eye study is acceptable. However, this fact must be established first.

Review:

(1) Eye Irritation Study: Bio-Technics Laboratories, Inc.; Report No. 1-2-90445; September 17, 1985.

Procedure:

Nine rabbits received 0.1 g of the test material in one eye each. The treated eyes of three of the rabbits were washed with deionized water 5 to 10 seconds after treatment. Observations were made for 21 days posttreatment.

Results:

At one hour posttreatment, 3/6 animals of the unwashed group and 2/3 of the washed group had corneal opacity (3/6 = 5) (2/3 = 5); 6/6 + 3/3 conjunctive redness (6/6 = 3) (1/3 = 1, 2/3 = 2), chemosis (1/6 = 3, 5/6 = 4) (3/3 = 3) and discharge (6/6 = 3) (1/3 = 2, 2/3 = 3).

At 24 hours, 1/6 corneal opacity (1/6 = 5); 6/6 + 3/3 redness (6/6 = 3) (3/3 = 2), chemosis (2/6 = 2, 3/6 = 3, 1/6 = 4) (2/3 = 1, 1/3 = 2) and discharge (1/6 = 2, 5/6 = 3) (3/3 = 2); 2/6 iris irritation (2/6 = 5).

At 7 days, 1/6 corneal opacity (1/6 = 5); 1/6 iris irritation (1/6 = 5); 6/6 redness (1/6 = 1, 4/6 = 2, 1/6 = 3); 3/6 chemosis (1/6 = 1, 1/6 = 3, 1/6 = 4) and 4/6 discharge (2/6 = 1, 1/6 = 2, 1/6 = 3).

At 21 days, 1/6 had corneal opacity (1/6 = 5) redness (1/6 = 1) and chemosis (1/6 = 2); 3/6 had discharge (1/6 = 1, 1/6 = 2, 1/6 = 3).

Study Classification: Core Guideline Data.

Toxicity Category: II - WARNING.

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DIURON SCIENTIFIC REVIEWS

Page 3 is not included in this copy.

Pages _____ through _____ are not included in this copy.

The material not included contains the following type of information:

___ Identity of product inert ingredients

___ Identity of product impurities

___ Description of the product manufacturing process

___ Description of product quality control procedures

___ Identity of the source of product ingredients

___ Sales or other commercial/financial information

✓ A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

___ FIFRA registration data

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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.